

Title (en)

COOPERATIVE MULTIPLE ACCESS IN WIRELESS NETWORKS

Title (de)

KOOPERATIVER MEHRFACHZUGANG BEI DRAHTLOSEN NETZWERKEN

Title (fr)

ACCÈS MULTIPLE COOPÉRATIF DANS DES RÉSEAUX SANS FIL

Publication

**EP 2158703 A4 20160615 (EN)**

Application

**EP 08770637 A 20080611**

Priority

- US 2008066478 W 20080611
- US 82016007 A 20070618

Abstract (en)

[origin: US2008310405A1] A cooperative cluster of wireless nodes exchange data before cooperatively communicating with a destination node over a MIMO channel. In a cooperative cluster of M nodes, each node shares 1/M of its own data with each of the other nodes, and keeps 1/M of its own data for transmission. Each node receives 1/M of data from each cooperative node. The data is merged at each cooperative node, and transmitted to the destination node.

IPC 8 full level

**H04B 7/26** (2006.01); **H04W 72/04** (2009.01); **H04W 76/04** (2009.01); **H04W 84/12** (2009.01); **H04W 84/18** (2009.01)

CPC (source: EP US)

**H04B 7/026** (2013.01 - EP US); **H04W 72/02** (2013.01 - EP US); **H04W 84/12** (2013.01 - EP US)

Citation (search report)

- [A] WO 2007000742 A2 20070104 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 2003148732 A1 20030807 - HUNTER TODD E [US], et al
- [I] YINGDA CHEN ET AL: "Wireless diversity through network coding", WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, 2006. WCNC 2006. IE EE LAS VEGAS, NV, USA 3-6 APRIL 2006, PISCATAWAY, NJ, USA, IEEE, PISCATAWAY, NJ, USA, 3 April 2006 (2006-04-03), pages 1681 - 1686, XP031387455, ISBN: 978-1-4244-0269-4, DOI: 10.1109/WCNC.2006.1696541
- [A] DEREJE H WOLDEGEGBREAL ET AL: "Network-Coding-based Adaptive Decode and Forward Cooperative Transmission in a Wireless Network: Outage Analysis", PROCEEDING OF THE 13TH EUROPEAN WIRELESS CONFERENCE., 1 April 2007 (2007-04-01), XP055133861, Retrieved from the Internet <URL:http://www.cs.uni-paderborn.de/fileadmin/Informatik/AG-Karl/Pubs/dereje-EW07-NC-AdDF.pdf> [retrieved on 20140807]
- See references of WO 2008157147A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2008310405 A1 20081218**; **US 8576772 B2 20131105**; CN 101682915 A 20100324; CN 101682915 B 20130529; EP 2158703 A1 20100303; EP 2158703 A4 20160615; WO 2008157147 A1 20081224

DOCDB simple family (application)

**US 82016007 A 20070618**; CN 200880020673 A 20080611; EP 08770637 A 20080611; US 2008066478 W 20080611